Supplemental Information

Homochiral Porous Solids Based on 1D Coordination Polymers Built from 46-Membered Macrocycles

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\textbf{Figure S1}. Symmetry expanded local structure for 1.
Figure S2. Ball-and-Stick representation of the 1D chain in 1.

Figure S3. Symmetry expanded local structure for 2.
**Figure S4.** Wire-frame representation of two kinds of 1D chains in 2.

**Figure S5.** Symmetry expanded local structure for 3.
Figure S6. Wire-frame representation of the polymeric chain in 3.

Figure S7. Symmetry expanded local structure for 4.
**Figure S8.** Symmetry expanded local structure for 5.

**Figure S9.** Wire-frame representation of the 1D polymeric chain in 5.
**Figure S10.** Space-filling model representation of the packing of 5 as viewed down the $b$-axis (Co, Cyan; O, Red; N, Blue; C, Dark grey and H, Light grey).

**Figure S11.** Space-filling model representation of the packing of 5 as viewed down the $c$-axis (Co, Cyan; O, Red; N, Blue; C, Dark grey and H, Light grey).
Figure S12. Symmetry expanded local structure for 6.

Figure S13. Space-filling representation of the 1D polymeric chain in 6.
Figure S14. Space-filling model representation of the packing of 6 as viewed down the c-axis (Mn, Cyan; O, Red; N, Blue; C, Dark grey and H, Light grey).

Figure S15. Space-filling model representation of the packing of 6 as viewed down the b-axis (Mn, Cyan; O, Red; N, Blue; C, Dark grey and H, Light grey).
Figure S16. Thermogravimetric analyses (TGA) for 1 between 20 and 600 °C.

Figure S17. Thermogravimetric analyses (TGA) for 2 between 20 and 600 °C.
Figure S18. Thermogravimetric analyses (TGA) for 3 between 20 and 600°C.

Figure S19. Thermogravimetric analyses (TGA) for 4 between 20 and 600 °C.
**Figure S20.** Thermogravimetric analyses (TGA) for 5 between 20 and 600 °C.

**Figure S21.** Thermogravimetric analyses (TGA) for 6 between 20 and 600 °C.
Figure S22. IR spectrum of 1.

Figure S23. IR spectrum of 2.
Figure S24. IR spectrum of 3.

Figure S25. IR spectrum of 4.
Figure S26. IR spectrum of 5.

Figure S27. IR spectrum of 6.